

**BEST AVAILABLE COPY****Patent Application No.: 10/707,910****FAX**RECEIVED  
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Date: January 6, 2005

Re: Patent Application No. 10/605,040

**Selection of specific species:**

Enclosed is a revision of the claims of patent application No. 10/605,040 based upon the election of Figure 4 as the species of choice.

This revision, dated 1/5/2005, supersedes the original claims submitted on 09/03/2003..

The enclosed listing contains all originally submitted 32 claims and 29 new claims, wherein the following changes are denoted:

Claims 1, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31 (currently amended),

Claims 2 - 3, (original),

Claims 4, 16, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, (withdrawn), and

Claims 33 - 61 (new)

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**Revision:  
Patent Application No. 10/707,910**

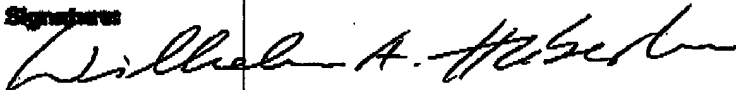
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Date: 1/5/2005

Re: Application No.: 10/707,910; Amendment to Claims originally submitted on September 3, 2003

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**What I claim is:**

1. **{currently amended}: A posterior part cleansing apparatus consisting of the following components:**
  - a. A piping connection from a cold water source to an external encapsulating housing,
  - b. Said external encapsulating housing, having a volume ranging from 50 to 500 cubic inches,
  - c. Said external encapsulating housing containing the following components:
    - i. An internal fluid housing,
    - ii. A cleaning fluid-level-controlling-valve to maintain the water level within said internal fluid housing,
    - iii. A cleaning fluid pump, operating at a rate ranging from 10 to 50 milliliters per second,
    - iv. A means to interrupt the cleaning fluid flow after deactivation of said fluid pump,

- v. ~~A fluid heater, that increases the fluid to a temperature ranging from 15 degree Celsius to 50 degree Celsius,~~
  - vi. An electric power source that provides power to both said heater and pump,
  - d. A means to control duration of pump activation;
  - e. A cleaning nozzle mounted within the confines of any conventional toilet bowl;
  - f. A means to pipe the cleaning fluid to a cleaning nozzle;
  - g. Said cleaning nozzle creat((es))ing a diffused stream of cleaning fluid to a specific projected cleaning space located within the confines of the toilet bowl where;
    - i. Said projected cleaning space is parallel to the area projected by the upper rim of the toilet bowl,
    - ii. Said projected cleaning space is centered in the rear half of the toilet bowl along the longitudinal center line and segmented by the latitudinal center line of the toilet bowl,
    - iii. Said projected cleaning space upper area is planar in any geometric shape fitting within the confines of an oval area, centered in the rear half along the longitudinal axis of any conventional toilet bowl, where said oval area has a maximum width of 150 millimeters and a maximum length of 200 millimeters, and said oval area is bound in the rear end of said toilet bowl by the inner rim of said toilet bowl.
    - iv. Said projected cleaning space has a height protruding into the toilet bowl of up to 100 millimeters.
2. (original): A posterior part cleansing apparatus specified in Claim 1, where the cleaning nozzle creates a plurality of streams of cleaning fluid toward the projected cleaning space.
3. (original): A posterior part cleansing apparatus specified in Claims 1 or 2, where a pressure sensitive switch is located under the lid of any conventional toilet bowl.
4. (withdrawn): A posterior part cleansing apparatus specified in Claim 2, where a pressure sensitive switch is located under the lid of any conventional toilet bowl.
5. (currently amended): A posterior part cleansing apparatus specified in Claims 1, 2, 3, 4, or 33, where the cleaning nozzle has a sanitary cleaning cycle after every use wherein a disinfectant and/or deodorizer is deposited onto the exposed nozzle surfaces.

6. **(withdrawn):** A posterior part cleansing apparatus specified in Claim 2, where the cleaning nozzle has a sanitary cleaning cycle after every use wherein a disinfectant and deodorizer is deposited onto the exposed nozzle surfaces.
7. **(currently amended):** A posterior part cleansing apparatus specified in Claims 1, 2, 3, 4, 5 or 6, where said cleaning nozzle is mounted along the longitudinal axis at the back end of any conventional toilet bowl with a vertical tolerance from the center line of plus or minus 80 100 millimeters, and said cleaning nozzle is positioned below the upper edge of the rim of said toilet bowl within the toilet bowl in a horizontal tolerance range from 30 0 to 150 millimeters and within 0 to 50 100 millimeters of the inner wall of said toilet bowl.
8. **(withdrawn):** A posterior part cleansing apparatus specified in Claim 2, where said cleaning nozzle is mounted along the longitudinal axis at the back end of any conventional toilet bowl with a vertical tolerance from the center line of plus or minus 80 millimeters, and said cleaning nozzle is positioned below the upper edge of the rim of said toilet bowl within the toilet bowl in a horizontal tolerance range from 30 to 150 millimeters and within 0 to 175 millimeters of the inner wall of said toilet bowl.
9. **(currently amended):** A process employing a posterior part cleansing apparatus specified in Claims 1, 2, 3, 4, 5, 7 or 33, where cleaning fluid is provided to the projected cleaning space at a rate ranging from 10 to 50 milliliters per second and at a temperature ranging from 25 to 50 degree centigrade.
10. **(withdrawn):** A process employing a posterior part cleansing apparatus specified in Claim 2, where cleaning fluid is provided to the projected cleaning space at a rate ranging from 10 to 50 milliliters per second at a temperature ranging from 25 to 50 degree centigrade.
11. **(currently amended):** A process employing a posterior part cleansing apparatus specified in Claims 1, 2, 3, 4, 5, 7, 9 or 33, where the cleaning fluid is provided to the projected cleaning space at a rate ranging from 10 to 50 milliliters per second, at a temperature ranging from 25 to 50 degree centigrade, and at a nozzle exit velocity ranging from 4 to 6 meters per second.
12. **(withdrawn):** A process employing a posterior part cleansing apparatus specified in Claim 2, where the cleaning fluid is provided to the projected cleaning space at a rate ranging from 10 to 50 milliliters per second, at a temperature ranging from 25 to 50 degree centigrade, and at a nozzle exit velocity ranging from 4 to 6 meters per second.
13. **(currently amended):** A process employing a posterior part cleansing apparatus specified in Claims 1, 2, 3, 4, 5, 7, 9, 11 or 33, where cleaning fluid is provided to the projected cleaning space at a rate ranging from 10 to 50 milliliters per second and at a temperature ranging from 25 to 50 degree centigrade, and a

disinfectant and deodorizer is deposited onto the exposed nozzle surfaces for a period ranging from 0.5 to 10 seconds at the end of every cleaning cycle.

14. (withdrawn): A process employing a posterior part cleansing apparatus specified in Claim 2, where cleaning fluid is provided to the projected cleaning space at a rate ranging from 10 to 50 milliliters per second and at a temperature ranging from 25 to 50 degree centigrade, and a disinfectant and deodorizer is deposited onto the exposed nozzle surfaces for a period ranging from 0.5 to 10 seconds at the end of every cleaning cycle.
15. (currently amended): A process employing a posterior part cleansing apparatus specified in Claims 1, 2, 3, 4, 5, 7, 9, 11, 13 or 33, where the cleaning fluid is water.
16. (withdrawn): A process employing a posterior part cleansing apparatus specified in Claim 2, where the cleaning fluid is water.
17. (currently amended): A process employing a posterior part cleansing apparatus specified in Claims 1, 2, 3, 4, 5, 7, 9, 11, 13, 15 or 33, where the cleaning fluid is a mixture of soap and water.
18. (withdrawn): A process employing a posterior part cleansing apparatus specified in Claim 2, where the cleaning fluid is a mixture of soap and water.
19. (currently amended): A process employing a posterior part cleansing apparatus specified in Claims 1, 2, 3, 4, 5, 7, 9, 11, 13, 15, 17 or 33, where the cleaning fluid is a mixture of water, anti-bactericides and soap.
20. (withdrawn): A process employing a posterior part cleansing apparatus specified in Claim 2, where the cleaning fluid is a mixture of water, anti-bactericides and soap.
21. (currently amended): A process employing a posterior part cleansing apparatus specified in Claims 1, 2, 3, 4, 5, 7, 9, 11, 13, 15, 17, 19 or 33, where the cleaning fluid is a mixture of water, anti-bactericides, anti-smelling agents and soap.
22. (withdrawn): A process employing a posterior part cleansing apparatus specified in Claim 2, where the cleaning fluid is a mixture of water, anti-bactericides, anti-smelling agents and soap.
23. (currently amended): A process employing a posterior part cleansing apparatus specified in Claims 1, 2, 3, 4, 5, 7, 9, 11, 13, 15, 17, 19, 21 or 33, where the duration of the cleaning cycle is automatically time controlled.
24. (withdrawn): A process employing a posterior part cleansing apparatus specified in Claim 2, where the duration of the cleaning cycle is automatically time controlled.

25. (currently amended): A process employing a posterior part cleansing apparatus specified in Claims 1, 2, 3, 4, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23 or 33, where the duration of the cleaning cycle is manually time controlled.
26. (withdrawn): A process employing a posterior part cleansing apparatus specified in Claim 2, where the duration of the cleaning cycle is manually time controlled.
27. (currently amended): A process employing a posterior part cleansing apparatus specified in Claims 1, 2, 3, 4, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25 or 33, where the rate of cleaning fluid is controllable within a range of 10 to 50 milliliters per second.
28. (withdrawn): A process employing a posterior part cleansing apparatus specified in Claim 2, where the rate of cleaning fluid is controllable within a range of 10 to 50 milliliters per second.
29. (currently amended): A process employing a posterior part cleansing apparatus specified in Claims 1, 2, 3, 4, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27 or 33, where the temperature of the cleaning fluid is controllable within a range of 15 to 50 degrees centigrade.
30. (withdrawn): A process employing a posterior part cleansing apparatus specified in Claim 2, where the temperature of the cleaning fluid is controllable within a range of 15 to 50 degrees centigrade.
31. (currently amended): A process employing a posterior part cleansing apparatus specified in Claims 1, 2, 3, 4, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29 or 33, where the rate of cleaning fluid is controllable within a range of 10 to 50 milliliters per second, and where the temperature of the cleaning fluid is controllable within a range of 30 to 50 degrees centigrade.
32. (withdrawn): A process employing a posterior part cleansing apparatus specified in Claim 2, where the rate of cleaning fluid is controllable within a range of 10 to 50 milliliters per second, and where the temperature of the cleaning fluid is controllable within a range of 30 to 50 degrees centigrade.
33. (new): A posterior part cleansing apparatus specified in Claim 1, where the cleaning nozzle creates a single of stream of cleaning fluid toward the projected clearing space.
34. (new): An apparatus specified in Claims 1, 2, 3, 4, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29 or 33, where a bidet function is provided through a second cleaning nozzle assembly.
35. (new): An apparatus specified in Claim 34, where the said external encapsulating housing is mountable to any conventional toilet bowl as a replacement of a conventional toilet seat and lid assembly.

36. (new): An apparatus specified in Claim 35, where a post posterior part cleansing air drying function is incorporated within said external encapsulating housing.
37. (new): An apparatus specified in Claim 36, where a plenum chamber uniformly distributes heated air to multiple points of use within said external encapsulating housing.
38. (new): An apparatus specified in Claims 36 or 37, where the air drying function is automatically activated.
39. (new): An apparatus specified in Claims 36 or 37, where the air drying function is manually activated.
40. (new): An apparatus specified in Claims 36, 37, 38, or 39, where the drying air temperature and volume is user selectable.
41. (new): An apparatus specified in Claims 34, 35, 36, 37, 38, 39, or 40, employing processes specified in Claims 9, 11, 13, 15, 17, 19, 21, 23, 25, or 27, where replaceable cartridges are used as source for each component of several posterior part cleaning process additives.
42. (new): An apparatus specified in Claims 36, 37, 38, 39, or 40, where a replaceable air freshener cartridge is incorporated into the said air drying function.
43. (new): An apparatus specified in Claims 34, 35, 36, 37, 38, 39, 40 or 41, where the external encapsulating housing material include anti-bacterial polymer components.
44. (new): An apparatus specified in Claim 43, where a hand sprayer assembly consisting of a connection to a cleaning fluid source, a cleaning fluid hose, a dispensing spray nozzle, a manually activated on/off valve are attached to said external encapsulating housing.
45. (new): An apparatus specified in Claim 44, where the hand sprayer is an attachment to said external encapsulating housing via quick disconnect.
46. (new): An apparatus specified in Claim 45, where the hand sprayer is an integral part of said external encapsulating housing.
47. (new): An apparatus specified in Claims 35, 36, 37, 38, 39, 40, 41, 42, 43 or 44, where a small portion of the cleaning fluid is diverted to several diffusing cleaning fluid outlets for the purposes of cleaning exposed apparatus surfaces, while operating said posterior part cleansing nozzles.
48. (new): An apparatus specified in Claim 47, where said diffusing cleaning fluid outlets are positioned such that the resulting cleaning fluid flow is along the axis of the moveable portion of the posterior part cleansing nozzle assembly.

49. (new): An apparatus specified in Claims 35, 36, 37, 38, 39, 40, 41, 42, 43 or 44, where an apparatus cleaner cartridge is integrated into the encapsulated housing and utilized in a post use apparatus cleaning cycle.
50. (new): An apparatus specified in Claims 35, 36, 37, 38, 39, 40, 41, 42, 43 or 44, where the moveable portion of the posterior part cleansing nozzle housing is mechanically cleaned during its retraction movement.
51. (new): An apparatus specified in Claims 35, 36, 37, 38, 39, 40, 41, 42, 43 or 44, where the cleaning nozzle is replaceable and contains different orifice sizes and orifice shapes.
52. (new): An apparatus specified in Claim 51, where the cleaning nozzle is color coded.
53. (new): An apparatus specified in Claim 52, where the cleaning nozzle connection is indexed and a push-in type.
54. (new): An apparatus specified in Claims 34 or 35, where the cleaning nozzle is retractable to a non-use position.
55. (new): An apparatus specified in Claims 34 or 35, where the cleaning nozzle movement into an operating position is cleaning fluid pressure activated.
56. (new): An apparatus specified in Claims 34 or 35, where the cleaning nozzle movement into an operating position is solenoid activated.
57. (new): An apparatus specified in Claims 34 or 35, where the cleaning nozzle movement into an operating position is mechanically activated.
58. (new): A process employing apparatus specified in Claims 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56 or 57, where the cleaning fluid is water.
59. (new): A process employing apparatus specified in Claims 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56 or 57, where the cleaning fluid is a mixture of soap and water.
60. (new): A process employing apparatus specified in Claims 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56 or 57, where the cleaning fluid is a mixture of water, anti-bactericides and soap.
61. (new): A process employing apparatus specified in Claims 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56 or 57, where the cleaning fluid is a mixture of water, anti-bactericides, anti-smelling agents and soap.



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